

## **APPENDIX C**

### **NOISE DATA**

TABLE Existing-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Evelyn Avenue  
NOTES: 455 W Evelyn - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 8200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	----
AUTOS		
	88.08	9.34
M-TRUCKS		
	1.65	0.19
H-TRUCKS		
	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.38

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	89.8	187.9

TABLE Existing-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Villa Street  
NOTES: 455 W Evelyn - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 5300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	----
AUTOS		
	88.08	9.34
M-TRUCKS		
	1.65	0.19
H-TRUCKS		
	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.99

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	65.1	139.7

TABLE Existing-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Bush Street  
NOTES: 455 W Evelyn - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3700 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.43

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
---	-----	-----	-----
0.0	0.0	51.4	110.0

TABLE Existing-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Calderon Avenue  
NOTES: 455 W Evelyn - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2900 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
---	-----	-----	-----
0.0	0.0	0.0	95.0

TABLE Existing Plus Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Evelyn Avenue  
NOTES: 455 W Evelyn - Existing Plus Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 8200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.38

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	89.8	187.9

TABLE Existing Plus Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Villa Street  
NOTES: 455 W Evelyn - Existing Plus Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 5100 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.82

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	63.5	136.2

TABLE Existing Plus Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Bush Street  
NOTES: 455 W Evelyn - Existing Plus Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.43

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn	70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	51.4	110.0	

TABLE Existing Plus Project-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Calderon Avenue  
NOTES: 455 W Evelyn - Existing Plus Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2900 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn	70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	95.0	

TABLE Cumulative w/o Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Evelyn Avenue  
NOTES: 455 W Evelyn - Cumulative w/o Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 8700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.64

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	93.2	195.4

TABLE Cumulative w/o Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Villa Street  
NOTES: 455 W Evelyn - Cumulative w/o Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 5600 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.23

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	67.5	144.9

TABLE Cumulative w/o Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Bush Street  
NOTES: 455 W Evelyn - Cumulative w/o Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3900 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.66

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
---	-----	-----	-----
0.0	0.0	53.2	113.9

TABLE Cumulative w/o Project-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Calderon Avenue  
NOTES: 455 W Evelyn - Cumulative w/o Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3100 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.59

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
---	-----	-----	-----
0.0	0.0	0.0	99.2

TABLE Cumulative with Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Evelyn Avenue  
NOTES: 455 W Evelyn - Cumulative with Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 8700 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.64

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	93.2	195.4

TABLE Cumulative with Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Villa Street  
NOTES: 455 W Evelyn - Cumulative with Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 5400 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.07

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	65.9	141.5



TABLE Cumulative with Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Bush Street  
NOTES: 455 W Evelyn - Cumulative with Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3900 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.66

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	53.2	113.9

TABLE Cumulative with Project-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/13/2009  
ROADWAY SEGMENT: Calderon Avenue  
NOTES: 455 W Evelyn - Cumulative with Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3100 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.59

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	0.0	99.2

Project Number: CMT0901 Sheet 1 of 1  
Project Name: 445 W. Evelyn  
Test Personnel: Jason Pawlovitz

### Noise Measurement Survey

Site Number: \_\_\_\_\_ Date: June 17, 2009 Time: From 4:35 pm To 4:50 pm

Site Location: 52' from building  
28'6" from streetlight

Noise Sources: Traffic  
Caltrain (arrive 4:36-leaves 4:38; arrives 4:45-leaves 4:47)  
Helicopter (prior to monitoring)  
Parking lot activity

#### Measurement Results (dBA)

Leq	62.8		
Lmax	95.2		
Lmin	49.9		
Lpeak	129.1		
L2	69.6		
L8	66.3		
L25	61.1		
L50	56.8		
SEL	86.6		

Comments: Offset 25.9

Equipment: Larson Davis 720 SLM; Kestrel 3000

#### Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
7.6	1.5	76.6	51.6
Comments:			

Project Number: CMT0801 Sheet 3 of      
Project Name: MANTAIN VIEW G.P.  
Test Personnel: A. DANKER

### Noise Measurement Survey

Site Number: 21 Date: 2/10/2009 Time: From 10:21 To 10:41

Site Location: 54' EAST OF 423C BUILDING CORNER  
11' NORTH OF VILLA

Noise Sources: TRAFFIC ON VILLA,  
TRAFFIC ON HOUGHTON,  
LUMBER YARD PARKING LOT ACTIVITY  
(LARGE SAW IN USE ABOUT 1 OR 2 TIMES PER MONTH)  
TRAIN + TRAM BELLS @ 10:30, SMALL AIRPLANE @ 10:34  
Measurement Results (dBA) AUTO REPAIR SHOPS @ FEETES ACROSS THE STREET

Leq	60.3		
Lmax	84.3		
Lmin	42.7		
Lpeak	102.2		
L2	68.9		
L8	63.2		
L25	57.2		
L50	51.9		
SEL	82.7		

Comments: OFFSET 25.4

Equipment: Larson Davis 720 SLM; Kestrel 3000

#### Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
3.4	1.3	53.6	53.1
Comments:			